

20. Gas discharge tube according to claim 19, wherein said carbon is present as polymorph of carbon, such as diamond, diamond-like carbon or graphite.
21. Gas discharge tube according to claim 19, wherein the carbon has been arranged using sputtering.
22. Gas discharge tube according to claim 18, wherein the carbon is arranged in addition of a metal.
23. Gas discharge tube according to claim 18, wherein the metal is chromium or titanium.
24. Gas discharge tube according to claim 18, wherein said carbon is present as polymorph of carbon, such as diamond, diamond-like carbon or graphite.
25. Gas discharge tube according to claim 24, wherein the carbon is present as graphite in addition to a metal.
26. Gas discharge tube according to claim 18, wherein the carbon has been arranged using sputtering.
27. Gas discharge tube according to claim 18, wherein the carbon is present in a layer having a thickness of 1  $\mu\text{m}$ .
28. Method for the manufacture of gas discharge tubes comprising at least two electrodes, and at least one hollow insulator fastened to the electrodes, wherein said at least two electrodes have a chemically inert surface, comprising applying the chemically inert surface onto the electrodes using a physical vapour deposition or a chemical vapour deposition.

29. Method according to claim 28, wherein the chemically inert surface is selected from the group of carbon, gold, and platinum.
30. Method according to claim 29, wherein the carbon is arranged in addition of a metal.
31. Method according to claim 30, wherein the metal is chromium or titanium.
32. Method according to claim 28, wherein said carbon is present as polymorph of carbon, such as diamond, diamond-like carbon or graphite.
33. Method according to claim 32, wherein the carbon is present as graphite in addition to a metal.
34. Method according to claim 28, wherein the carbon has been arranged using sputtering.
35. Method according to claim 28, wherein the deposition of carbon takes place in an atmosphere of methane.
36. Method according to claim 28, wherein the carbon is present in a layer having a thickness of 1 $\mu$ m.
37. Method according to claim 29, wherein said carbon is present as polymorph of carbon, such as diamond, diamond-like carbon or graphite.